

CC -!- TISSUE SPECIFICITY: Expression levels are very low or not
 CC detectable on monocytes, T-cells, B-cells, dendritic cells and
 CC natural killer (NK) cells.
 CC -!- SIMILARITY: Contains 4 immunoglobulin-like C2-type domains.
 CC -----
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 CC -----
 DR EMBL; AF025531; AAB87665.1; -;
 DR EMBL; BC017412; AAH17412.1; -;
 DR EMBL; BC027916; AAH27916.1; -;
 DR HSP; P43626; INKR.
 DR Genew; HGNC:6603; LILRA2.
 DR MIM; 604812; -;
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig_c2.
 DR Pfam; PF00047; ig; 3.
 DR SMART; SM00408; IgC2; 3.
 DR PROSITE; PS00835; IG LIKE; 2.
 DR Immune response; Receptor; Repeat; Signal; Transmembrane;
 KW Immunoglobulin domain; Glycoprotein; Antigen; Alternative splicing;
 KW Polymorphism; Multigene family.
 FT SIGNAL 1 23 POTENTIAL.
 FT CHAIN 24 483 LEUCOCYTE IMMUNOGLOBULIN-LIKE RECEPTOR
 FT SUBFAMILY A MEMBER 2.
 FT EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 24 449 POTENTIAL.
 FT DOMAIN 450 470 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 471 483 IG-LIKE C2-TYPE 1.
 FT DOMAIN 117 113 IG-LIKE C2-TYPE 2.
 FT DOMAIN 117 222 IG-LIKE C2-TYPE 3.
 FT DOMAIN 224 313 IG-LIKE C2-TYPE 4.
 FT DOMAIN 324 413 BY SIMILARITY.
 FT DISULFID 49 97 BY SIMILARITY.
 FT DISULFID 143 195 POTENTIAL.
 FT DISULFID 244 295 POTENTIAL.
 FT DISULFID 344 395 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 64 64 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 103 103 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 138 138 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 279 279 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 300 300 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 339 339 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 429 429 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT VARSPLIC 419 436 EAETLSPSQNKTDSTTT -> A (in isoform 2).
 FT FTId=VSP 008455.
 FT VARIANT 25 25 H -> L (in dbSNP:1834697).
 FT VARIANT 25 25 FTId=VAR_016988.
 FT VARIANT 25 25 H -> N (in dbSNP:1834698).
 FT FTId=VAR_016989.
 FT SEQUENCE 483 AA; 52991 MW; 6B57FFC81F8CCFC6 CRC64;
 Query Match 100.0%; Score 1868; DB 1; Length 483;
 Best Local Similarity 100.0%; Pred. No. 4.3e-142; Mismatches 0; Gaps 0;
 Matches 343; Conservative 0; Indels 0;
 QY 1 PRTHVQAGHLPKPTLWAEPSGVIIQGSFVTLRCQGSLOAEYHYLYRENKKSASWVRITQEP 60
 DB 17 PRTHVQAGHLPKPTLWAEPSGVIIQGSFVTLRCQGSLOAEYHYLYRENKKSASWVRITQEP 76
 QY 61 GKNGQFPISITWEHAGRYHCQYSHNSSEYSDPLELVVTGAYSKPTLSALPSVVTLG 120
 DB 77 GKNGQFPISITWEHAGRYHCQYSHNSSEYSDPLELVVTGAYSKPTLSALPSVVTLG 136
 QY 121 GNVTLQCVSAFQDFILCKEGEDHFORLNHSHARGSWAIFSVGVPSPSRWSYRCY 180
 DB 137 GNVTLQCVSAFQDFILCKEGEDHFORLNHSHARGSWAIFSVGVPSPSRWSYRCY 196
 QY 181 AYDSNSPVWYSLPDLLELVPGVSKKPSLSVQPGPMVAFGESITLQCVSDVGYDRFVLY 240

Db 197 AYDSNSPVWYSLPDLLELVPGVSKKPSLSVQPGPMVAFGESITLQCVSDVGYDRFVLY 256
 QY 241 KEGERDLPORPGWQPGAGLSQANFTLGPVSPHGGGYRCYSANHLSEWSAPSPLDILI 300
 Db 257 KEGERDLPORPGWQPGAGLSQANFTLGPVSPHGGGYRCYSANHLSEWSAPSPLDILI 316
 QY 301 TGQFYDRPSSLVQPVPTVAPGKNVTLCCQSRGQFHTFLTKEG 343
 Db 317 TGQFYDRPSSLVQPVPTVAPGKNVTLCCQSRGQFHTFLTKEG 359
 RESULT 2
 LIA3_HUMAN STANDARD; PRT; 439 AA.
 ID LIA3_HUMAN O15469; O15470; O75016; Q8N151; Q8N154; Q8NHJ1; Q8NHJ2;
 AC Q8NHJ3; Q8NHJ4;
 DT 10-OCT-2003 (Rel. 42, Created)
 DT 10-OCT-2003 (Rel. 42, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Leukocyte immunoglobulin-like receptor subfamily A member 3 precursor
 DE (Leukocyte immunoglobulin-like receptor 4) (LIR-4) (Immunoglobulin-
 DE like transcript 6) (ILT-6) (Monocyte inhibitory receptor HM43/HM31)
 DE (CD85e antigen).
 GN LILRA3 OR LIR4 OR ILT6.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.
 RC TISSUE=Lung, and Monocytes;
 RX MEDLINE=97422556; PubMed=9278324;
 RA Am J.P., Nwankwo C., Austen K.F.;
 RT "Molecular identification of a novel family of human Ig superfamily
 RT members that possess immunoreceptor tyrosine-based inhibition motifs
 RT and homology to the mouse gp49B1 inhibitory receptor.";
 RL J. Immunol. 159:2342-2349(1997).
 RN [2]
 RP SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.
 RX MEDLINE=98208234; PubMed=9548455;
 RA Borges L., Hsu M.-L., Fanger N., Kubin M., Cosman D.;
 RT "A family of human lymphoid and myeloid Ig-like receptors, some of
 RT which bind to MHC class I molecules.";
 RL J. Immunol. 159:5192-5196(1997).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC TISSUE=peripheral blood leukocytes;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Klausner R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Richards S., Morley K.C., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Villalon D.K., Munz D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whitling M., Madan A.C., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield J.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length
 RT human and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [4]
 RP SEQUENCE OF 1-420 FROM N.A., AND VARIANTS PRO-3; ARG-107 AND HIS-301.
 RA Norman P.J., Carey B.S., Vaughan R.W.;
 RT "Leukocyte receptor cluster: polymorphism and ethnic diversity of

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	1868	100.0	483	1	L1A2_HUMAN	Q8N149 homo sapien
2	1475	79.0	439	1	L1A3_HUMAN	Q8N6C8 homo sapien
3	1458	78.1	489	1	L1A1_HUMAN	O75019 homo sapien
4	1457.5	78.0	598	1	L1B2_HUMAN	Q8N423 h leukocyte
5	1451	77.7	650	1	L1B1_HUMAN	Q8NH16 h leukocyte
6	1192.5	63.8	631	1	L1B3_HUMAN	O75022 homo sapien
7	1078	57.7	499	1	L1A4_HUMAN	P59901 homo sapien
8	1073	57.4	590	1	L1B5_HUMAN	O75023 homo sapien
9	1071	57.3	643	1	L1B5_PANTR	Q8MJ27 pan troglod
10	521	27.9	444	1	K3L1_HUMAN	P43629 h killer ce
11	512	27.4	387	1	K3S1_HUMAN	Q14943 homo sapien
12	499.5	26.7	448	1	L1B4_HUMAN	Q8NHJ6 homo sapien
13	492	26.3	455	1	K3L2_HUMAN	P43630 homo sapien
14	461	24.7	432	1	K3L1_MOUSE	P83555 mus musculu
15	454.5	24.3	335	1	G49B_MOUSE	Q64281 mus musculu
16	445.5	23.8	422	1	K3L1_RAT	P83556 rattus norv
17	403.5	21.6	303	1	G49A_MOUSE	Q61450 mus musculu
18	387.5	20.7	304	1	K2S4_HUMAN	P43632 homo sapien
19	385.5	20.6	304	1	K2S2_HUMAN	P43631 homo sapien
20	382.5	20.5	348	1	K2L1_HUMAN	P43626 h killer ce
21	382.5	20.5	341	1	K2L3_HUMAN	P43628 h killer ce
22	370.5	19.8	304	1	K2S1_HUMAN	Q14954 homo sapien
23	370.5	19.8	348	1	K2L2_HUMAN	P43627 homo sapien
24	365	19.5	377	1	K2L4_HUMAN	Q99706 homo sapien
25	359.5	19.2	304	1	K2S3_HUMAN	Q14952 homo sapien
26	358.5	19.2	304	1	K2S5_HUMAN	Q14953 homo sapien
27	307.5	16.5	287	1	FCAR_HUMAN	P24071 homo sapien
28	243.5	13.0	495	1	A1B3_HUMAN	P04217 homo sapien
29	216.5	11.6	291	1	DM43_DIDMR	P82957 didelphis m
30	178	9.5	3707	1	PGBM_MOUSE	Q05793 mus musculu
31	155.5	8.3	4391	1	PGBM_HUMAN	P98160 homo sapien
32	154.5	8.3	847	1	CD22_HUMAN	P20273 homo sapien
33	149.5	8.0	526	1	CEA1_HUMAN	P13688 homo sapien